

RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
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The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/651,150A
Source: 1/600
Date Processed by STIC: 8/13/2002

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
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Revised 01/29/2002



1600

RAW SEQUENCE LISTING

DATE: 08/13/2002

PATENT APPLICATION: US/09/651,150A

TIME: 14:19:43

Input Set : D:\SEQLIST.txt

Output Set: N:\CRF3\08132002\I651150A.raw

5 <110> APPLICANT: Payan, Donald
 9 <120> TITLE OF INVENTION: TOSO AS A TARGET FOR DRUG SCREENING
 13 <130> FILE REFERENCE: RIGL-002CON
 17 <140> CURRENT APPLICATION NUMBER: US 09/651,150A
 19 <141> CURRENT FILING DATE: 2000-08-30
 23 <150> PRIOR APPLICATION NUMBER: US 09/050,861
 25 <151> PRIOR FILING DATE: 1998-03-30
 29 <160> NUMBER OF SEQ ID NOS: 35
 33 <170> SOFTWARE: PatentIn version 3.1
 37 <210> SEQ ID NO: 1
 39 <211> LENGTH: 1911
 41 <212> TYPE: DNA
 43 <213> ORGANISM: Homo sapiens
 47 <400> SEQUENCE: 1

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50	tctagaaggg	acaatggact	tctggctttg	gccactttac	ttcctgccag	tatcaggggc	120
52	cctgaggatc	ctcccagaag	taaaggtaga	gggggagctg	ggcggatcag	ttaccatcaa	180
54	atgcccactt	cctgaaatgc	atgtgaggat	atatctgtgc	cgggagatgg	ctggatctgg	240
56	aacatgtggt	accgtggtat	ccaccaccaa	cttcatcaag	gcagaataca	agggccgagt	300
58	tactctgaag	caatacccac	gcaagaatct	gttctagtgt	gaggtaacac	agctgacaga	360
60	aagtgcagc	ggagtctatg	cctgcccagg	gggcatgaac	acagaccggg	gaaagaccca	420
62	gaaagtcacc	ctgaatgtcc	acagtgaata	cgagccatca	tgggaagagc	agccaatgcc	480
64	tgagactcca	aaatggtttc	atctgcccta	tttgttccag	atgcctgcat	atgccagttc	540
66	ttccaaatc	gtaaccagag	ttaccacacc	agctcaaagg	ggcaaggtec	ctccagttca	600
68	ccactctctc	cccaccaccc	aaatcaccca	ccgccctcga	gtgtccagag	catcttcagt	660
70	agcaggtgac	aagccccgaa	ccttccctgcc	atccactaca	gcctcaaaaa	tctcagctct	720
72	ggaggggctg	ctcaagcccc	agacgcccag	ctacaaccac	cacaccaggc	tgcacaggca	780
74	gagagcactg	gactatggct	cacagtctgg	gaggggaagg	caaggatttc	acatcctgat	840
76	cccgaccatc	ctgggccttt	tctgtctggc	acttctgggg	ctgggtgtga	aaagggccgt	900
78	tgaaaggagg	aaagccctct	ccaggcgggc	ccgccgactg	gccgtgagga	tgcgcgccct	960
80	ggagagctcc	cagaggcccc	gggggtcgcc	ggacccgcgc	tcccaaaaaca	acatctacag	1020
82	cgctgcccg	cggcgcgctc	gtggagcgga	cgtgcaggc	acaggggagg	cccccgttcc	1080
84	cggccccgga	gcgcggttgc	ccccgcggcc	gctgcagggt	tctgaatctc	cctggctcca	1140
86	tgccccatct	ctgaagacca	gctgtgaata	cgtgagcctc	taccaccagc	ctgccgccat	1200
88	gatggaggac	agtgattcag	atgactacat	caatgttcc	gcctgacaac	tccccagcta	1260
90	tcccccaacc	ccaggctcgg	actgtggtgc	caaggagtct	catctatctg	ctgatgtcca	1320
92	atacctgctt	catgtgttct	cagagccctc	atcacttccc	atgccccatc	tgcactccca	1380
94	tccccatcta	tctgtggccc	tgagcatggc	tctgccccca	ggtcgtcttg	cacaccttgg	1440
96	cagccccctg	tagttgacag	gtaagctgta	ggcatgtaga	gcaattgtcc	caatgccact	1500
98	tgttctcttt	ccaagccgtc	gaacagactg	tgggatttgc	agagtgttct	ttccatgtct	1560
100	ttgaccacag	ggtgttgttg	ctgccaggct	ctagatcaca	tggcatcagg	ctggggcaga	1620
102	ggcatagcta	ttgtctcggg	cctccttccc	agggttgggt	cttacacaaa	tagaaggctc	1680
104	ttgctctgag	ttatgtgacg	tgcctcagcc	ccatggacta	agcaggggtc	tgggtataaac	1740

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING

DATE: 08/13/2002

PATENT APPLICATION: US/09/651,150A

TIME: 14:19:43

Input Set : D:\SEQLIST.txt

Output Set: N:\CRF3\08132002\I651150A.raw

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106 actcctggaa acgcctttgc cctgatccaa atggttagcac ttgctagtga acgtctactt 1800
108 atctcaagtt ctatgctaaa ggcaatttat cttgatgtga tgataaacca aacttattag 1860
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115 <211> LENGTH: 390
117 <212> TYPE: PRT
119 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 2
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129 Leu Arg Ile Leu Pro Glu Val Lys Val Glu Gly Glu Leu Gly Gly Ser
130 20 25 30
133 Val Thr Ile Lys Cys Pro Leu Pro Glu Met His Val Arg Ile Tyr Leu
134 35 40 45
137 Cys Arg Glu Met Ala Gly Ser Gly Thr Cys Gly Thr Val Val Ser Thr
138 50 55 60
141 Thr Asn Phe Ile Lys Ala Glu Tyr Lys Gly Arg Val Thr Leu Lys Gln
142 65 70 75 80
145 Tyr Pro Arg Lys Asn Leu Phe Leu Val Glu Val Thr Gln Leu Thr Glu
146 85 90 95
149 Ser Asp Ser Gly Val Tyr Ala Cys Gly Ala Gly Met Asn Thr Asp Arg
150 100 105 110
153 Gly Lys Thr Gln Lys Val Thr Leu Asn Val His Ser Glu Tyr Glu Pro
154 115 120 125
157 Ser Trp Glu Glu Gln Pro Met Pro Glu Thr Pro Lys Trp Phe His Leu
158 130 135 140
161 Pro Tyr Leu Phe Gln Met Pro Ala Tyr Ala Ser Ser Ser Lys Phe Val
162 145 150 155 160
165 Thr Arg Val Thr Thr Pro Ala Gln Arg Gly Lys Val Pro Pro Val His
166 165 170 175
169 His Ser Ser Pro Thr Thr Gln Ile Thr His Arg Pro Arg Val Ser Arg
170 180 185 190
173 Ala Ser Ser Val Ala Gly Asp Lys Pro Arg Thr Phe Leu Pro Ser Thr
174 195 200 205
177 Thr Ala Ser Lys Ile Ser Ala Leu Glu Gly Leu Leu Lys Pro Gln Thr
178 210 215 220
181 Pro Ser Tyr Asn His His Thr Arg Leu His Arg Gln Arg Ala Leu Asp
182 225 230 235 240
185 Tyr Gly Ser Gln Ser Gly Arg Glu Gly Gln Gly Phe His Ile Leu Ile
186 245 250 255
189 Pro Thr Ile Leu Gly Leu Phe Leu Leu Ala Leu Leu Gly Leu Val Val
190 260 265 270
193 Lys Arg Ala Val Glu Arg Arg Lys Ala Leu Ser Arg Arg Ala Arg Arg
194 275 280 285
197 Leu Ala Val Arg Met Arg Ala Leu Glu Ser Ser Gln Arg Pro Arg Gly
198 290 295 300
201 Ser Pro Arg Pro Arg Ser Gln Asn Asn Ile Tyr Ser Ala Cys Pro Arg
202 305 310 315 320
205 Arg Ala Arg Gly Ala Asp Ala Ala Gly Thr Gly Glu Ala Pro Val Pro

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206          325          330          335
209 Gly Pro Gly Ala Pro Leu Pro Pro Ala Pro Leu Gln Val Ser Glu Ser
210          340          345          350
213 Pro Trp Leu His Ala Pro Ser Leu Lys Thr Ser Cys Glu Tyr Val Ser
214          355          360          365
217 Leu Tyr His Gln Pro Ala Ala Met Met Glu Asp Ser Asp Ser Asp Asp
218          370          375          380
221 Tyr Ile Asn Val Pro Ala
222 385          390
225 <210> SEQ ID NO: 3
227 <211> LENGTH: 73
229 <212> TYPE: PRT
231 <213> ORGANISM: Homo sapiens
235 <400> SEQUENCE: 3
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241 Cys Arg Glu Met Ala Gly Ser Gly Thr Cys Gly Thr Val Val Ser Thr
242          20          25          30
245 Thr Asn Phe Ile Lys Ala Glu Trp Lys Gly Arg Val Thr Leu Lys Gln
246          35          40          45
249 Tyr Pro Arg Lys Asn Leu Phe Leu Val Glu Val Thr Gln Leu Thr Glu
250          50          55          60
253 Ser Asp Ser Gly Val Tyr Ala Cys Gly
254 65          70
257 <210> SEQ ID NO: 4
259 <211> LENGTH: 79
261 <212> TYPE: PRT
263 <213> ORGANISM: Homo sapiens
267 <400> SEQUENCE: 4
269 Leu Ser Leu Thr Cys Thr Val Ser Gly Ser Thr Phe Ser Asn Asp Tyr
270 1          5          10          15
273 Tyr Thr Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile Gly
274          20          25          30
277 Tyr Val Phe Tyr His Gly Thr Ser Asp Asp Thr Thr Pro Leu Arg Ser
278          35          40          45
281 Arg Val Thr Met Leu Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Arg
282          50          55          60
285 Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
286 65          70          75
289 <210> SEQ ID NO: 5
291 <211> LENGTH: 73
293 <212> TYPE: PRT
295 <213> ORGANISM: Homo sapiens
299 <400> SEQUENCE: 5
301 Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser Asn
302 1          5          10          15
305 Tyr Ala Asn Trp Val Gln Gln Lys Pro Asp His Leu Phe Thr Gly Ile
306          20          25          30
309 Gly Gly Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe Ser Gly

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310          35          40          45
313 Ser Leu Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Thr
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317 Glu Asp Glu Ala Ile Tyr Phe Cys Ala
318 65          70
321 <210> SEQ ID NO: 6
323 <211> LENGTH: 72
325 <212> TYPE: PRT
327 <213> ORGANISM: Homo sapiens
331 <400> SEQUENCE: 6
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337 Trp Tyr Arg Gln His Ser Gly Lys Ala Pro Lys Ala Leu Met Ser Ile
338          20          25          30
341 Phe Ser Asn Gly Glu Lys Glu Glu Gly Arg Phe Thr Ile His Leu Asn
342          35          40          45
345 Lys Ala Ser Leu His Phe Ser Leu His Ile Arg Asp Ser Gln Pro Ser
346          50          55          60
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350 65          70
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355 <211> LENGTH: 75
357 <212> TYPE: PRT
359 <213> ORGANISM: Homo sapiens
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369 Tyr Arg Gln Thr Met Met Arg Gly Leu Glu Leu Leu Ile Tyr Phe Asn
370          20          25          30
373 Asn Asn Val Pro Ile Asp Asp Ser Gly Met Pro Glu Asp Arg Phe Ser
374          35          40          45
377 Ala Lys Met Pro Asn Ala Ser Phe Ser Thr Leu Lys Ile Gln Pro Ser
378          50          55          60
381 Glu Pro Arg Asp Ser Ala Val Tyr Phe Cys Ala
382 65          70          75
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387 <211> LENGTH: 74
389 <212> TYPE: PRT
391 <213> ORGANISM: Homo sapiens
395 <400> SEQUENCE: 8
397 Val Glu Leu Thr Cys Thr Ala Ser Gln Lys Lys Ser Ile Gln Phe His
398 1          5          10          15
401 Trp Lys Asn Ser Asn Gln Ile Lys Ile Leu Gly Asn Gln Gly Ser Phe
402          20          25          30
405 Leu Thr Lys Gly Pro Ser Lys Leu Asn Asp Arg Ala Asp Ser Arg Arg
406          35          40          45
409 Ser Leu Trp Asp Gln Gly Asn Phe Pro Leu Ile Ile Lys Asn Leu Lys
410          50          55          60
413 Ile Glu Asp Ser Asp Thr Tyr Ile Cys Glu

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RAW SEQUENCE LISTING

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Input Set : D:\SEQLIST.txt

Output Set: N:\CRF3\08132002\I651150A.raw

414 65 70
 417 <210> SEQ ID NO: 9
 419 <211> LENGTH: 80
 421 <212> TYPE: PRT
 423 <213> ORGANISM: Homo sapiens
 427 <400> SEQUENCE: 9
 429 Ala Lys Met Ser Cys Glu Ala Lys Thr Phe Pro Lys Gly Thr Thr Ile
 430 1 5 10 15
 433 Tyr Trp Leu Arg Glu Leu Gln Asp Ser Asn Lys Asn Lys His Phe Glu
 434 20 25 30
 437 Phe Leu Ala Ser Arg Thr Ser Thr Lys Gly Ile Lys Tyr Gly Glu Arg
 438 35 40 45
 441 Val Lys Lys Asn Met Thr Leu Ser Phe Asn Ser Thr Leu Pro Phe Leu
 442 50 55 60
 445 Lys Ile Met Asp Val Lys Pro Glu Asp Ser Gly Phe Tyr Phe Cys Ala
 446 65 70 75 80

449 <210> SEQ ID NO: 10
 451 <211> LENGTH: 76
 453 <212> TYPE: PRT
 455 <213> ORGANISM: Homo sapiens
 459 <400> SEQUENCE: 10
 461 Val Thr Ile Thr Cys Pro Phe Thr Tyr Ala Thr Arg Gln Leu Lys Lys
 462 1 5 10 15
 465 Ser Phe Tyr Lys Val Glu Asp Gly Glu Leu Val Leu Ile Ile Asp Ser
 466 20 25 30
 469 Ser Ser Lys Glu Ala Lys Asp Pro Arg Tyr Lys Gly Arg Ile Thr Leu
 470 35 40 45
 473 Gln Ile Gln Ser Thr Thr Ala Lys Glu Phe Thr Val Thr Leu Lys His
 474 50 55 60
 477 Leu Gln Leu Asn Asp Ala Gly Gln Tyr Val Cys Gln
 478 65 70 75

481 <210> SEQ ID NO: 11
 483 <211> LENGTH: 84
 485 <212> TYPE: PRT
 487 <213> ORGANISM: Homo sapiens
 491 <220> FEATURE:
 493 <221> NAME/KEY: MISC_FEATURE
 495 <222> LOCATION: (6)..(51)
 497 <223> OTHER INFORMATION: "Xaa" at

positions 6-7, 9-18, 20, 22, 25-32, 34-35, 37-48

and 50

498 -51 can be any amino acid.

502 <220> FEATURE:

504 <221> NAME/KEY: MISC_FEATURE

506 <222> LOCATION: (53)..(53)

508 <223> OTHER INFORMATION: "Xaa" at position 53 can be Phe, Val, or Ile.

512 <220> FEATURE:

514 <221> NAME/KEY: MISC_FEATURE

516 <222> LOCATION: (54)..(76)

518 <223> OTHER INFORMATION: "Xaa" at positions 54-65, 71, and 73-76 can be any amino acid.

522 <220> FEATURE:

misspelled - should be positions

"Phe" is at position 53 (see next page)

<220> FEATURE:
 <221> NAME/KEY: MISC_FEATURE
 <222> LOCATION: (79)..(79)
 <223> OTHER INFORMATION: "Xaa" at postition 79 can be either Ala or Gly.
 <220> FEATURE:
 <221> NAME/KEY: MISC_FEATURE
 <222> LOCATION: (80)..(82)
 <223> OTHER INFORMATION: "Xaa" at postitions 80 and 82 can be any amino acid.
 <400> SEQUENCE: 11
 Val Thr Leu Thr Cys Xaa Xaa Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15
 Xaa Xaa Phe Xaa Trp Xaa Arg Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30
 Leu Xaa Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45
 Tyr Xaa Xaa Arg Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60
 Xaa Phe Ser Leu Thr Ile Xaa Asn Xaa Xaa Xaa Xaa Asp Ser Ala Xaa
 65 70 75 80
 Tyr Xaa Cys Ala

"Ala" is at position 79

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/651,150A

7
DATE: 08/13/2002
TIME: 14:19:44

Input Set : D:\SEQLIST.txt
Output Set: N:\CRF3\08132002\I651150A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 6,7,9,10,11,12,13,14,15,16,17,18,20,22,25,26,27,28,29,30
Seq#:11; Xaa Pos. 31,32,34,35,37,38,39,40,41,42,43,44,45,46,47,48,50,51,54
Seq#:11; Xaa Pos. 55,56,57,58,59,60,61,62,63,64,65,71,73,74,75,76,80,82
Seq#:25; Xaa Pos. 3,4,6